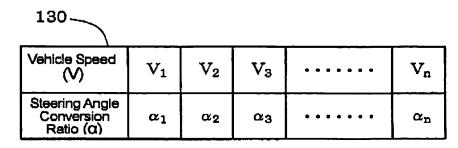


FIG. 5



 $\alpha = \theta / \phi$ 

Φ: Handle Shaft Angular Position

 $\Theta$ : Steering Shaft Angular Position

FIG. 6

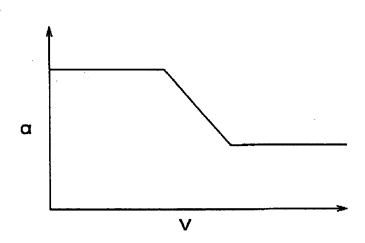


FIG. 7

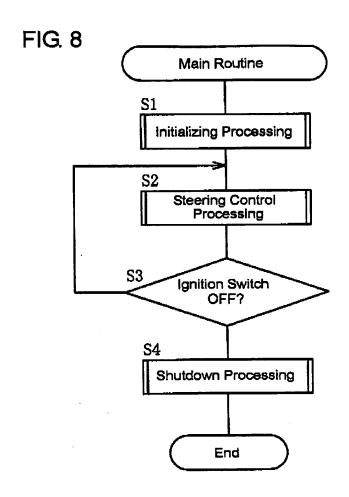
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Vs Δ θ	Vs <sub>1</sub>	$Vs_2$	Vs3	Vs4	• • •	Vsn
Δθ1	n 11	η <sub>12</sub>	η <sub>13</sub>	η <sub>14</sub>	• • •	$\eta_{\mathrm{ln}}$
Δθ2	η 21	η 22	7 28	η 24	• • •	η <sub>2n</sub>
Δθ3	η <sub>31</sub>	732	η 33	η <sub>34</sub>	• • •	$\eta_{3\mathrm{n}}$
Δ θ4	$\eta_{41}$	η 42	748	η 44	• • •	$\eta_{4n}$
:	•	•	•	•	:	•
$\Delta \theta_{m}$	$\eta_{m1}$	$\eta_{\mathrm{m2}}$	$\eta_{ {f m}, {f 3}}$	$\eta_{\mathrm{m4}}$	• • •	$\eta_{ m mn}$

 $\eta$ : Duty Ratio  $\Delta \theta = \theta - \theta$ 

 $\theta$  ': Target Steering Shaft Angular Position  $\theta$  : Present Steering Shaft Angular Position

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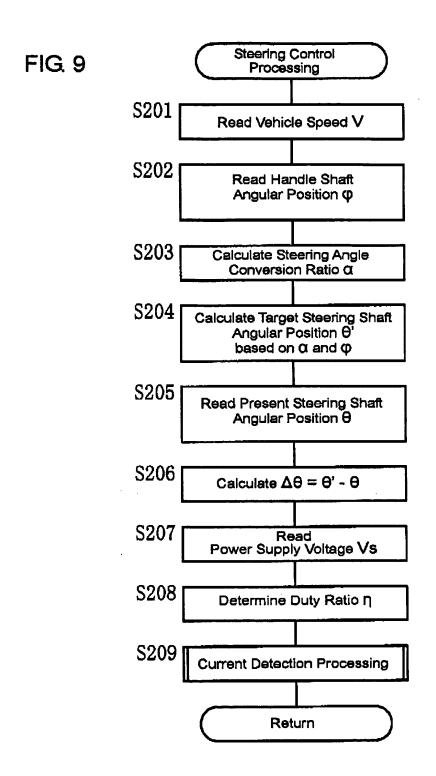
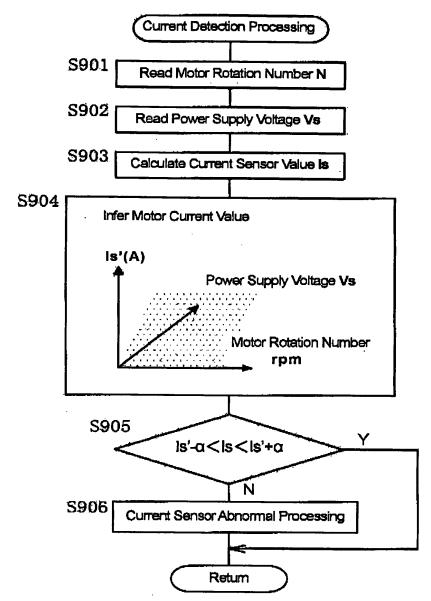


FIG. 10



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FIG. 11

